

WHAT IS CLAIMED IS:

1. A flow cell system comprising:
 - an inner pipe defining a supply pipe with an end portion;
 - an outer pipe surrounding the inner pipe at a selected distance and defining a discharge pipe with an end portion;
 - a flow cell head being attached to a sensor surface and
 - a tip defined by the end portion of the inner pipe and the outer pipe, wherein the tip is arranged adjacent to the sensor surface, and the tip and the flow cell head are hold together by a press fit.
2. The flow cell system as defined in claim 1, wherein a sensor is provided and the flow cell head is pressed against the sensor surface to seal the flow cell system from the outside.
3. The flow cell system as defined in claim 2, wherein an extra sealing is provided between the flow cell head and the sensor surface.
4. The flow cell system as defined in claim 1, wherein a step is formed on the flow cell head and the end portion of the outer pipe is pressed in contact with the step and thereby seals the flow cell from the outside.
5. The flow cell system as defined in claim 4 wherein an extra sealing is provided between the step of the flow cell head and the end portion of the outer pipe.
6. The flow cell system as defined in claim 1, wherein the end portion of the inner pipe and the end portion of the outer pipe are arranged around common center and the overall diameter is between 10 μm an 10m.

7. The flow cell system as defined in claim 6, wherein the overall diameter is between 0,1mm and 10mm.
- 5 8. The flow cell system as defined in claim 1, wherein a glass fibre is provided and an end of the glass fibre points to the sensor surface, and the end of the glass fibre is attached to an optic.
- 10 9. The flow cell system as defined in claim 8, wherein the glass fibre is used for guiding light from or to the sensor surface and carry out absorption or fluorescent measurements.
- 15 10. The flow cell system as defined in claim 1, wherein the end portion of the inner pipe defines an end which is of linear shape a parallel to the sensor surface.
11. The flow cell system as defined in claim 1, wherein the end portion of the inner pipe defines an end which is of linear shape and inclined with respect to the sensor surface.
- 20 12. The flow cell system as defined in claim 1 wherein the end portion of the inner pipe defines an end which is of a curved shape and the shape of the curve is exponential of hyperbolic.

13. A flow cell comprising:

- a flow cell head;
- an inner pipe defining a supply pipe; and
- an outer pipe defining a discharge pipe, wherein the inner pipe defines an end portion, the outer pipe defines an end portion and the inner and the outer pipe are arranged concentrically in the area of their end portions, and the end portion of the outer pipe is hold by a press fit in the flow cell head.

14. The flow cell as defined in claim 13, wherein a step is formed on the flow cell head and the end portion of the outer pipe is pressed in contact with the step and thereby seal the flow cell from the outside.

15. The flow cell as defined in claim 14, wherein an additional sealing is provided on the step of the flow cell head and the end portion of the outer pipe is pressed in contact with the sealing.

16. The flow cell as defined in claim 13 wherein the flow cell head is in contact with a sensor surface of a sensor and the contact seals the flow cell from the outside.

17. The flow cell as defined in claim 13 wherein the end portion of the inner pipe and the end portion of the outer pipe are arranged around common center and the overall diameter is between 10 μ m an 10m.

18. The flow cell as defined in claim 17 wherein the overall diameter is between 0,1 mm and 10mm.

19. The flow cell as defined in claim 13, wherein a glass fibre is provided and an end of the glass fibre points to the sensor surface, and the end of the glass fibre is attached to an optic.

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20. The flow cell as defined in claim 19 wherein the glass fibre is used for guiding light from or to the sensor surface and carry out absorption or fluorescent measurements.

21. The flow cell as defined in claim 13 wherein the end portion of the inner pipe defines an end which is of linear shape a parallel to the sensor surface.

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22. The flow cell as defined in claim 13 wherein the end portion inner pipe defines an end which is of linear shape and inclined with respect to the sensor surface.

23. The flow cell as defined in claim 13 wherein the end portion of the inner pipe defines an end which is of a curved shape and the shape of the curve is exponential of hyperbolic.

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